

WHAT IS CLAIMED IS:

1. An information processing apparatus  
comprising:

5 means capable of wirelessly communicating with a  
plurality of external devices which display received  
image data;

means for simultaneously transmitting the image  
data to the plurality of external devices by using the  
means capable of wirelessly communicating; and

10 means for updating the image data transmitted by  
the means for simultaneously transmitting the image  
data.

2. The information processing apparatus according  
to claim 1, wherein the means capable of wirelessly  
15 communicating comprises:

means for detecting all external devices which can  
perform wireless communication from the plurality of  
external devices existing on the periphery as detection  
targets;

20 a user interface which displays each of the  
external devices detected by the means for detecting  
all external devices so as to be capable of being  
selected; and

25 means for establishing communication with each of  
the external devices selected by the user interface.

3. The information processing apparatus according  
to claim 1, wherein the means for simultaneously

transmitting the image data transmits image data of an application program which operates in the background to at least one external device.

4. The information processing apparatus according to claim 1, wherein the means for simultaneously transmitting the image data transmits image data having the same content as that of currently processed image data which is internally displayed to at least one external device.

5. The information processing apparatus according to claim 1, wherein the means for simultaneously transmitting the image data transmits image data divided into a plurality of areas for a multi screen to the plurality of external devices.

6. The information processing apparatus according to claim 1, wherein the means for simultaneously transmitting the image data transmits image data of each of a plurality of application programs to the plurality of external devices.

7. The information processing apparatus according to claim 1, wherein each of the external devices is a projector device configured to project an optical image corresponding to received image data onto a projection screen.

8. The information processing apparatus according to claim 7, wherein the means capable of wirelessly communicating comprises:

means for detecting each of all the projector devices existing in a range to which a transmitted wireless signal can be supplied;

5 means for displaying a list of the detected projector devices to each projector device so as to be capable of being selected; and

means performing communication connection with respect to each of the projector devices selected from the list,

10 wherein the means for simultaneously transmitting the image data transmits screen image data to each of the projector devices selected from the list by using a wireless signal.

9. The information processing apparatus according to claim 8, further comprising a display device capable of displaying image data, and image data generated based on image data transmitted to the projector device is displayed in the display device.

10. The information processing apparatus according to claim 1, wherein the means for simultaneously transmitting the image data includes means for transmitting the same image data to the plurality of external devices.

11. The information processing apparatus according to claim 1, wherein the means for simultaneously transmitting the image data includes means for transmitting the different image data to the plurality

of external devices.

12. A computer program product configured to store program instructions for execution on a computer system enabling the computer system to perform:

5           transmitting image data to a plurality of external devices capable of performing wireless communication which exist on the periphery; and

            updating the image data which is transmitted to the external devices.

10           13. The program according to claim 12, wherein said transmitting the image data includes:

            detecting each of all projector devices existing in a range to which a transmitted wireless signal can be supplied as the plurality of external devices

15           capable of performing wireless communication;

            displaying a list of the detected projector devices to each of the projector devices so as to be capable of being selected;

            performing communication connection with respect  
20           to the projector device selected from the list; and

            acquiring image data which is transmitted to the projector device to which the communication has been established.

            14. The program according to claim 13, wherein  
25           said acquiring the image data includes acquiring image data which is a base of currently processed image data which is internally displayed, and acquiring image data

of an application program which operates in the background.

15       15. The program according to claim 13, wherein said acquiring the image data includes acquiring image data which is a base of currently processed image data which is internally displayed or image data for a multi screen obtained by dividing image data of an application program which operates in the background into a plurality of areas.

10       16. The program according to claim 13, wherein said acquiring the image data includes acquiring image data of each of a plurality of application programs.

15       17. The program according to claim 13, wherein said updating the image data which is transmitted to the external device includes periodically acquiring image data with respect to the image data transmitted to each of the projector devices selected from the list, judging whether the acquired image data is updated image data by comparing the acquired image data with  
20       previously transmitted image data, and transmitting only image data which is determined as the updated image data.